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DEPARTMENT OF THE NAVY USTIFICATION OF ESTIMATES **YEAR 1987** FOR FISCAL JUSTIFICATION

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991A-QA

SUBMITTED TO CONGRESS FEBRUARY 1986

PROCUREMENT

WEAPONS PROCUREMENT, NAVY

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| 4. PERFORMING ORGANIZATION REPORT NUMBE | (S) | 5. MONITORING | ORGANIZATION F | KEPORT NUMI | BEK(5) |
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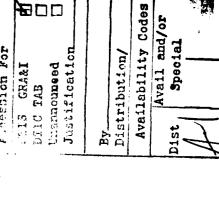
DEPARTMENT OF THE MANY WEAPONS PROCUREMENT, MANY

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JUSTIFICATION OF ESTINATES FOR FISCAL YEAR 1987 AND 1988

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WEAPONS PROCUREMENT, NAVY

\$70,575,000; MK-15 close-in weapons system program, \$150,146,000; MK-75 gun mount program \$17,905,000; MK-19 machine gun program, \$1,196,000; 25mm gun mount, \$5,501,000; Small arms and weapons, \$11,305,000; MK-19 Modification of guns and gun mounts, \$58,117,000; Guns and gun mounts support equipment program, \$1,200,000; Spares and repair parts, \$166,601,000; In all: \$5,227,795,000]; \$6,095,400,000 to remain available for obligation until September 30, [1988: Provided, That within the total amount appropriated, the subdivisions within this appropriation shall be reduced by \$210,500,000.] 1989. (10 U.S.C. 5012, 5031, 7201; Department of Defense Appropriation Act, 1986, as included in Public Law 99-190; additional authorizing legislation to For construction, procurement, production, modification, and modernization of missiles, torpedoes, other of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway, [as follows: Poseidon, \$5,001,000; Trident I, \$36,226,000; Trident II, \$581,986,000; Support equipment and facilities, \$17,107,000; Tomahawk, \$724,804,000; AIM/RIM-7 F/M Sparrow, \$359,200,000; AIM-9 L/M Sidewinder, \$125,800,000; AIM-54 A/C Phoenix, \$343,600,000; AIM-54 A/C Phoenix, \$200,000; AIM-9 L/M Sidewinder, \$185,800,000; AIM-54 A/C Phoenix, \$20,300,000; SM-2MR, \$509,719,000; AM-2ER, \$303,200,000; AGM-88A HARM, \$236,000,000; SM-1 MR, \$20,300,000; SM-2MR, \$509,719,000; SM-2ER, \$303,200,000; Sidearm, \$30,500,000; Hellfire, \$51,768,000; Laser Maverick, \$173,458,000; IIR Maverick, \$27,809,000; Aerial Targets, \$105,600,000; Drones and decoys, \$29,400,000; Other missile support equipment, \$16,289,000; MK-48 ADCAP torpedo program, \$125,115,000; MK-60 CAPTOR mine program, \$59,600,000; MK-30 mobile target program, \$18,600,000; MK-38 mini mobile target program, \$3,499,000; Antisubmarine rocket (ASROC) program, \$15,551,000; Modification of torpedoes, \$115,055,000; Torpedo support equipment program, weapons, and related support equipment including spare parts, and accessories therefor; expansion of public and private plants, including the land necessary therefor, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation



| ication code 17-1507-0-1-051 Program by activities: Direct program: Ballistic missiles Other missiles Other weapons Torpedoes and related equipment Torpedoes and repair parts Torpedoes and repair parts Total direct program Total direct program Reimbursable program Total Total Total Total Financing: Offsetting collections from: Federal funds(-) Trust funds(-) Non-Federal sources(-) Recovery of prior year obligations Unobligated balance available, start of year: For completion of prior year budget plans Available to finance new budget plans Available to finance new budget plans | Budget 1985 act 3, 104, 724, 229, 4, 380, 4, 381, | (amounts for programed) 1986 est. 1986 est. 3,455,859 785,859 785,859 785,859 785,859 785,860 30,000 5,216,095 30,000 5,246,095 | 1,43 3,34 6,09 6,09 | 64,61 22,75 97,45 | 0b14gations 1986 est. | 1987 est. |
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| Total direct program Reimbursable program Total Financing: Offsetting collections from: Federal funds(-) Non-Federal sources(-) Recovery of prior year obligations Unobligated balance available, start of year: For completion of prior year budget plans Available to finance new budget plans | 4,380, | 5,216 | 31, | | 591,960 3,330,843 676,690 166,492 | 1,200,920 3,370,047 840,962 203,415 147,399 |
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| For completion of prior year budget plans Available to finance new budget plans | 90 | | -29,000 -2,000 | 1,000 34,787 -59 -672 | -29,000 | -29,000 |
| -22 | ans to plans | -54,000 80,800 | | .40 | | -2,493,575 |
| Unobligated balance available, end of year: For completion of prior year budget plans Available to finance subsequent year budge Unobligated balance lapsing | year: year: plans budge | -26,800 | | 132,115 2,098,824 54,000 38,591 | -26,800 2,493,575 | 2,826,232 |
| 39.0001 Budget authority 4,353,611 5 | ,353,61 | 5,216,095 | 6,095,400 | 4,353,611 | 5,216,095 | 6,095,400 |
| 4,353,611 | 4,353,61 | 5,22 | 6,095,400 | 4,353,611 | 27.7 | 60, |
| 4,353,611 | ,353,6 | 5,216,09 | 6,095,400 | 53, | 5,216,095 | .095,40 |
| Relation of obligations to outla Obligations incurred, net Obligated balance, start of ye Obligated balance, end of year Adjustments in expired account Adjustments in unexpired account | | | | 3,954,006 4,092,675 -5,155,924 51,336 | 4,902,144 5,155,924 -6,238,618 | |
| 90.0001 Outlays | | ; ; ; ; ; ; ; | | 2,941,421 | 3,819,450 | 3,956,036 |



| 2,706 27,064 81,193 754,155 7,029,639 4,894,757 5,7 275 37,112 37,387 | | | weapons Procurement, Navy Object Classification (in Thousands of dollars) | | KEPOKI 20 | 04 Feb 86 PAGE 132 |
|---|----------|---|---|--|-----------|-----------------------|
| 1,911 2,706 19,107 27,064 57,320 81,193 517,376 754,193 517,376 754,193 3,277,515 4,029,639 3,873,229 4,894,757 44,798 37,112 45,049 37,387 | Identifi | cation code 17-1507-0-1-0 | | 1985 actual | ! | 1987 est. |
| 1,911 2,706 19,107 27,064 57,320 81,193 517,376 754,155 3,277,515 4,029,639 | ٥ | irect obligations: | | ; ; ; ; ; ; ; ; ; ; | | |
| 19,107 27,064 57,320 81,193 517,376 754,155 3,277,515 4,029,639 | 122.001 | Transportation of things Other services: | | 1,911 | 2,706 | 3,392 |
| 57,320 81,193 517,376 754,155 3,277,515 4,029,639 | 125.003 | Contracts | | 19,107 | 27,064 | 33,927 |
| igations 517,376 754,155 3,277,515 4,029,639 37,317 515 4,029,639 37,317 515 44,798 37,312 3918,278 37,387 3918,278 4,932,144 | 125.004 | Other | | 57,320 | 81,193 | 101,781 |
| 3,277,515 4,029,639 | 126.001 | Supplies and materials | | 517,376 | 754,155 | 722,499 |
| is 275 4,894,757 5,7 5,7 5,7 5,7 5,7 5,7 5,7 5,7 5,7 | 131.001 | Equipment | | 3,277,515 | 4,029,639 | 4,901,144 |
| ; 275 44,798 37,112 | 199.001 | Total Direct obligations | | 3,873,229 | 4,894,757 | 5,762,743 |
| igations | A 226 | eimbursable obligations: | | į | | i d |
| e obligations 45,049 37,387 45,049 37,387 3,918,278 4,932,144 5,7 | 231.001 | Supplies and materials Equipment | | 44,798 | 37,112 | 30,700 |
| 3,918,278 4,932,144 | 299.001 | Total Reimbursable obligati | Suoi | 45,049 | 37,387 | 31,000 |
| | 106.666 | Total obligations | | 3,918,278 | 4,932,144 | 5,793,743 |

| Budget Plan (amounts for PROCUREMENT actions programed) 1955 Actual 1986 ost. 1987 sst. 1985 actual 1986 est. 1955 Actual 1986 ost. 1987 sst. 1985 actual 1986 est. 29,758 270,319 21,818 238 29,758 322,433 2 | 1986 cst. 1987 cst. 1985 actual 1986 cst. 1987 cs 1986 cst. 1987 cst. 1985 actual 1986 cst. 1987 cs 29,758 270,319 21,818 322,433 2,336 324,769 3,708 6,234 -63 -68 -68 -68 -88 -88 -88 -88 -88 | snocesty entitions rections, | Werbons Procurement, Navy and Sinsbuing (in Thousan | Mersons Procurement, Nevy and Financing (in Thousands of dollars) | | FISCAL YFAR 1983 | REPORT 21 | 04 Feb 86 PAGE 255 |
|---|---|---------------------------------|--|---|-------------|---|---|-----------------------|
| 1995 antual 1986 ont. 1987 est. 1985 actual 1986 est. 29, 758 270, 319 270, 319 270, 319 270, 319 270, 319 322, 433 2, 336 3, 708 6, 234 66, 234 66, 886 -131, 006 93, 315 23, 591 33, 708 33, 708 33, 708 93, 315 33, 591 | 1905 antual 1986 cat. 1987 est. 1985 actual 1986 est. 29,758 270,319 21,818 2,336 322,433 2,336 3,708 6,234 -63 -131,006 93,315 23,315 38,591 | , | udget Plan actions | (amounts for programed) | PROCUREMENT | 1 1 2 2 2 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | Obligations | 1 |
| 29, 758 270, 319 21, 818 538 322, 433 2, 336 3, 708 6, 234 68 93, 315 93, 315 23, 591 38, 591 | 29, 758 270, 319 21, 818 538 322, 433 2, 336 3, 708 6, 234 6, 234 68, 886 39, 315 23, 591 3, 708 3, 708 3, 708 6, 234 63, 315 63, 315 7, 39, 315 | | 185 actual | 1986 est. | 1987 est. | 1985 sctual | 1986 est. | 1987 est |
| 322, 433 2, 336 2, 336 3, 708 6, 234 | 322, 433 2, 336 3, 708 6, 234 -63 -63 -65 -3, 315 -3, 315 -3, 315 -3, 315 -3, 315 -3, 315 | | | | | 29, 758 270, 319 21, 818 538 | | |
| -131, c06 93, 315 23, 591 | -131, noe 93, 315 (3), 891 | • | | 1 | | 322, 433 | : | ; |
| -131,006 93,315 93,591 | -131, nne -131, nne -93, 315 -23, 591 | • | 1 1 1 2 4 8 | 2 1 1 2 4 4 5 5 7 | 1 1 1 | 2, 336 | 6 2 3 8 2 4 5 6 8 | 1 |
| -131, c06 93, 315 23, 591 | -131, <u>e</u> 06 93, 315 63, 591 | | | | | 324, 769 | | |
| -131, noe 93, 315 03, 591 | -131, 906 93, 315 (3), 891 | | | | | 3,708 | | |
| -131, co6 93, 315 03, 591 | - 131, c06 93, 315 53, 591 | | | | | 6,234 | | |
| -131, 006 93, 315 03, 591 | -131, 006 93, 315 73, 591 | of year | | | | - 668 | | |
| 93, 315 03, 591 | 93, 315 C3, 591 | t plan. don t nla | -131, 906 | | | 465, 886 | | |
| | : | her see | 93, 315 03, 591 | | | 93, 315 38, 591 | | |

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|----------------------------|---|---|---|--|---|---|---|
| 1 1 1 1 ! ! | | Budget Pier (amounts for PROCUREMENT actions programed) | t Pier (amounts for actions programed) | PROCUREMENT | • 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Obligations | |
| Identifu | Identification and 17-1507-0-1-651 | 1983 @ntua! | 1696 08% | 1987 est. | 1985 actual | 1986 est. | 1987 est. |
| 00.0161 | Program by activities: Direct program: Dallistic missules | | : 1 1 1 1 1 1 1 1 | : 1 1 1 1 1 1 | 21,673 | 85, 183 | 6 1 1 1 1 1 1 1 |
| 00 000 1070 00 | Uther Hissilss Torpedos, and helaten equipment Other waspans | | | | 95, 343 52, 770 | 336, 134 77, 729 12, 584 | |
| 1016.00 | logal direct program | 1 1 1 1 1 1 | | 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 810,972 | 531,650 | • • • • • • • • • • • • • • • • • • • |
| 01.016 | ikeimbunsable onngman | | | | 42, 713 | 5, 926 | |
| 10.0001 | Total | · · · · · · · · · · · · · · · · · · · | 1 | ! ! ! ! ! | 853, 685 | 537, 576 | 1 1 1 1 1 1 1 1 |
| T COC: | Finerwing: of setting mullections from Enderp funde(-) | | | | 120 | | |
| 17, 9661 17, 9661 | Trues fundar-) Receivery of miles year ofligations | | | | 27, 140 | | |
| 21,4000 21,4000 | Unubligated baltide evailable, stand of year: For perplation of anion year badget plans Aveilable to finence new badget plans | -28,400 | | | -1,428,967 | -537, 576 | |
| 22, 4001 | Teprogramming frontito prior year budget pla Unobligatol bajamus transferiord to other and | 32, 800 | | | 38,800 | | |
| 24, 4002 | Unoblicating Entence Ava Table end of year. For completion of prior year budget plans | | | | 537, 576 | | |
| 39, 0001 | Budget arkho ity | 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | t t 1 1 3 3 3 4 1 4 | 1 1 1 1 5 6 6 | 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 |

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| : | Weapo Program and F | Weapons Procurement, Navy and Financing (in Thousands of dollers) | Navy lousands of de | | FISCAL YEAR 1985 | REPORT 21 | 04 Feb 86 PAGE 257 |
|--|---|---|--|---|---|---|--|
| | | Budget Plan. | Budget Plan (amounts for PROCUREMIN) actions programed) | PROCUREMENT | | Obligations | 1 4 5 1 1 1 4 1 1 |
| Identifi | Identification code 17-1507-0-1-051 | 1985 actual | 1986 est. | 1987 est. | 1985 actual | 1986 est. | 1987 est. |
| 00.010; 00.0201 00.0301 | Program by activities: | 322, 749 3, 107, 351 724, 200 229, 111 | , , , , , , , , , , , , , , , , , , , | | 213, 180 1, 901, 247 490, 291 135, 106 | 76, 267 733, 376 131, 804 41, 698 | 33, 302 469, 728 102, 105 52, 307 |
| 1016.00 | fotal direct program | 4, 380, 411 | ! ! ! ! ! | 1 1 1 1 1 1 1 1 1 1 1 | 2, 739, 824 | 983, 145 | 657, 442 |
| 1010.10 | Reimbursable program | 1,461 | | | | 1, 461 | |
| 10.0001 | Total | 4,381,872 | f | 1 1 1 1 1 1 1 1 1 1 | 2, 739, 824 | 984, 606 | 657, 442 |
| 11. 0001 13. 0031 14. 0001 21. 4002 21. 4003 22. 4001 24. 4002 | Finencing Offsetting collections from: Federal funds(-) Trust funds(-) Non-Federal sources(-) (hobigated belance available, start of yuar for completion of prior year budget plans Available to finance new budges plans Reprograming from/to prior year budget pla Unobligated balance transferred to other acc Unobligated balance available, end of year for committee of plans | -2,878 1,413 4 -80,800 | - 54, 000 80, 800 - 26, 800 | | -2,876 -1,413 -1,551 -248 | -1,561,248 -54,000 -26,800 [°] | -657, 442 |
| 24, 4003 | ā | 54,000 | f t | 1 | 54,000 | | 4 6 1 1 6 1 |
| 40. C | budget authority (Appropriation | 4, 553, 611 | | | 4, 353, 611 | | |

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|--|---------------------------------------|--|--|---|----------------------------|--|---|--------------------------------------|
| | | | Sudget Plan actions | Sudget Plan (enquirts for PROCHREMENT actions programed) | PROCURENEUT | | dbligations | |
| iden eif | identification code | 17-1507-0-1-051 | 1985 ectual | 1980 est. | 1987 est. | 1985 accual | 1966 est. | 1987 est. |
| - | Program by sorivities: | 114108: | | : | i i i i i i | , , , , , , , , , , , , , , , , , , , | , i i i i i i i i i i i i i i i i i i i | 1 4 1 1 1 1 |
| 00 0101 | Direct Oroginal Ballistic missiles | .ss. (cs | | | 1,437,037 | | | 1,049,618 |
| 06, 6201 | Other missines | S ମ | | | 3, 5.43, 053 | | | 2,083,079 |
| 00, 0301 | Turpedoes an | Iurpedoes and related equipment | | | 971 364 | | | 583, 403 |
| 50 6401 | Other wespons | 51 | | | 193, 202 | | | 102,311 |
| 00.0501 | Spares and repair parts | epair parts | | | ,150,734 | | | 132, 249 |
| 00.9101 | Total direct program | : brogram | 1 | 1 1 1 1 1 1 1 | 6, 035, 400 | t t t t t t t | | 3,951,160 |
| 01.0161 | Reimburssbie program | いたしたっこ | | | 31,006 | | | 31,000 |
| 10.0001 | Total | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 6 1 1 1 1 4 1 | 6, 126, 400 | 1 1 1 1 1 1 3 3 4 1 | f | 3, 982, 160 |
| 13.00.11 13.00.11 14.4002 40.0001 | ရှိသို့ သို့ သို့ | inaring: Sfsetting cellections from: Federal funds(-) Trust funds() Unsbligated balance available, and of yes: For completion of prior year budget plans Budget authority (Abbroariation) | | 1 | -29,000 -2,000 | | | - 29, 000 - 2, 000 2, 144, 240 |
| | | | | | 1000 | | | 201 (200) |

THE STATE OF STATE OF STATE OF STATE OF STATE OF STATES
Appropriation Introduction (In Thousands of Dollars)

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guns, and gun mounts; aerial and underwater targets used in training exercises and evaluation; hardware for Navy Navigation and Defense Meteorological satellite programs; spare parts; ground support and training tactical missiles, torpedoes, mines, guns and support equipment for Naval, Coast Guard and Marine Aviation forces. Support equipment includes: equipment for modification of in-service missiles, torpedoes, mines, equipment; and industrial facilities and tools required for the production and maintenance of missiles, The Weapons Procurement, Navy appropriation finances the procurement of ballistic, strategic and torpedoes, mines and guns.

Fiscal Year 1987 and 1988 Highlights

The budget programs for the Weapons Procurement, Navy appropriation total \$6,095.4 million in FY 1987 Significant features of these requests are: and \$7,873.5 million in FY 1988.

- (a) A TRIDENT II (D-5) missile request of \$1,424.4 million in FY 1987 and \$2,283.7 million in FY 1988 for production support and initial production of 21 and 66 missiles respectively.
- (b) \$12.6 million in FY 1987 and \$29.7 million in FY 1988 is requested for ongoing weapons system support and for equipment procurements associated with flight test programs for the Poseidon and Trident I missiles, ballistic missile modifications and support equipment and facilities.
- (c) A TOMAHAWK Cruise Missile request of \$ 721.7 million for 324 missiles in FY 1987 and \$817.9 million for 410 missiles in FY 1988 plus \$68.8 million in FY 1987 and \$90.2 million in FY 1988 for advance procurement to support the FY 1988 and FY 1989 procurements, respectively.

- missiles, \$47.0 million for 1716 SPARROW missiles, \$289.3 million for 205 PHOENIX missiles, \$128.4 million for 205 PHOENIX missiles, \$128.4 million for 94 HARPOON missiles, \$256.7 million for 1,110 HARM missiles, \$198.8 million for 1,800 LASER MAVERICK missiles, \$730.6 million for 1,194 STANDAKD missiles, \$63.2 million for 50 RAM missiles, \$51.9 million for 685 STINGER missiles, \$52.1 for 419 IIR MAVERICK missiles, and \$22.9 million for 256 SIDEARM missiles, plus \$28.4 million for advance procurement for the PHOENIX missile to support the FY 1988 procurement. The FY 1987 request contains \$29.1 million to support surge programs for the SIDEWINDER and HARPOON missile programs. The FY 1988 request accelerates the Tactical Missile procurement over the FY 1987 level by procuring 1,594 SPARROW missiles for \$271.6 million, 430 PHOENIX missiles for \$431.8 million, 204 HARPOONS for \$197.1 million, 927 IIR MAVERICK missiles for \$91.3 million, 102 RAM missiles for \$78.4 million, 1,250 STANDARD missiles for \$747.3 million, and 1,492 HARM missiles for \$336.6 million, plus \$9.1 million for advance procurement to support the FY 1989 PHOENIX procurement.
- (e) \$241.9 million in FY 1987 and \$328.8 million in FY 1988 is requested for Aerial Targets, Fleet Satellite Communications, Defense Meteorological Satellite Program, Drones and Decoys, missile modifications, and other items required to support the tactical missile procurements.
- in FY 1987 and \$87.7 million for 500 MK-46 Torpedoes in FY 1988, as well as advance procurement of \$23.8 million in FY 1987 in support of the multi-year procurement of this weapon; and \$508.4 million for 227 MK-48 ADCAP Torpedoes in FY 1987 and \$552.6 million for 296 MK-48 ADCAP Torpedoes in FY 1988. Three Anti-Submarine Warfare programs commence initial production in FY 1987. The budget request includes \$17.0 million for 34 Anti-Surface Warfare (ASUW) torpedoes in FY 1987 and \$30.9 million for 110 ASUM torpedoes in FY 1988; \$109.9 million for 84 MK 50 Advanced Lighweight Torpedoes (ALWI) in FY 1987 and \$346.9 million for 204 MK 50 ALWI torpedoes in FY 1988 and \$74.3 million for 200 Vertical Launched ASROCs (VLA) in FY 1987 and \$73.5 million for 300 VLA's in FY 1988.
- related support equipment which primarily funds the Close-In-Weapons Systems procurement of 27 systems in FY 1987 for \$105.6 million and 9 in FY 1988 for \$43.1 million. (g) \$193.2 million in FY 1987 and \$132.4 million in FY 1988 is requested for guns, gun mounts and
- (h) \$150.7 million in FY 1987 and \$162.1 million in FY 1988 is requested for the procurement of spares and repair parts for all equipments, weapon systems, and support equipment procured under the Weapons Procurement, Navy appropriation which require support by the Hardware Systems Commands prior to the Navy Supply System Material Support Date.

Financing

The FY 1987 plan of \$6,095.4 million and the FY 1988 plan of \$7,873.5 million for this appropriation are to be financed by new obligational authority.

Summary of Requirements (In Thousands of Dollars)

| FY 1986 FY 1987 Estimate Estimate | 602,560 1,437,037 | 3,455,859 3,343,063 | 782,732 971,364 | 223,447 193,202 | 151,497 150,734 | 5,216,095 6,095,400 | . 4 | | | 4,932,144 5,793,743 |
|-----------------------------------|--------------------|---------------------|---------------------------------|-----------------|-------------------------|----------------------|------------------------------|--|---|---------------------|
| FY 1985 Actual | 322,749 | 3,104,351 | 724,200 | 229,111 | (171,325) | 4,380,411 | 079 18E N | 1,642,048 | 1,178,454 | 3,918,278 |
| | Ballistic Missiles | Other Missiles | Torpedoes and Related Equipment | Other Weapons | Spares and Repair Parts | TOTAL Direct Program | TOTAL Descende Doorstromonte | Less: Portion of program to be obligated in subsequent fiscal year | Plus: Obligations incurred against prior year program funds | TOTAL Obligations |

| | (In Thousands of Dollars) |
|---------------------------------|---------------------------|
| | FY 1988 Estimate |
| Ballistic Missiles | 2,313,465 |
| Other Missiles | 3,998,565 |
| Torpedoes and Related Equipment | 1,266,996 |
| Other Weapons | 132,400 |
| Spares and Repair Parts | 162,056 |
| | |

7,873,482

TOTAL Direct Program

BUDGET ACTIVITY 1: BALLISTIC MISSILES

and Incompletely supervised (Supervised Supervised) (Supervised Supervised Su

(\$ In Thousands)
FY 1988 Estimate - \$2,313,465
FY 1987 Estimate - \$1,437,037
FY 1986 Estimate - \$ 602,560
FY 1985 Actuals - \$ 322,749

missiles, ancillary checkout and test equipment, missile modifications, and support equipment Purpose and Scope of Work: These funds provide for the procurement of fleet ballistic and facilities required to outfit and support the submarines assigned to the seabased strategic deterrent forces. Justification of Funds: Of the \$1,437.0 million requested in FY 1987, \$1,433.1 million is for ballistic missiles, \$0.1 million is for modification of missiles, and \$3.8 million is for support equipment and facilities. Of the \$2,313.5 million requested in FY 1988, \$2,305.5 million is for ballistic missiles, \$5.2 million is for modification of missiles, and \$2.8 million is for support equipment and

BALLISTIC MISSILES

(\$ In Thousands)
FY 1988 Estimate - \$2,305,464
FY 1987 Estimate - \$1,433,152
FY 1986 Estimate - \$ 590,097
FY 1985 Actuals - \$ 291,630

Of the \$1,433.1 million requested for ballistic missiles in FY 1987, \$4.0 million is for POSEIDON, \$4.7 million is for TRIDENT I, \$1,124.4 million is for TRIDENT II, and \$300.0 million is for TRIDENT II Advance Procurement.

Of the \$2,305.5 million requested for ballistic missiles in FY 1988, \$3.4 million is for POSEIDON, \$18.3 million is for TRIDENT I, \$1,913.7 million is for TRIDENT II, and \$370.0 million is for TRIDENT II Advance Procurement.

POSEIDON Nissile

Ariount

they may materialize from Soviet Anti-Submarine Warfare (ASW) and Anti-Ballistic Hissile (ABM) development programs. POSEIDON missiles are no longer being procured; however, funding To maintain the effectiveness of the Fleet Ballistic System against postulated enemy defensive capabilities of the next decade, the Mavy was directed in FY 1966 to develop and deploy the POSEIDON weapon system. The principal advantage of the POSEIDON over its predecessor, the POLARIS, is its adaptability to overcome a broad spectrum of defenses, as is required to support missile flight tests which will continue throughout the operational life of the weapon system. This testing is necessary in order to continue to evaluate the readiness of deployed missiles in accordance with Joint Chiefs of Staff test criteria.

The POSEIDON procurement requests of \$4.0 million in FY 1937 and \$3.4 million in FY 1988 are for procurement of reentry system components for use in the C-3 flight test program and for ongoing weapon system support.

TRIDENT I Hissile

FY 1987 FY 1988 Procurement Cost $\frac{Qty}{-}$ Amount $\frac{Qty}{\$4,739}$ Amount $\frac{9ty}{\$15,32}$

missiles for backfit into existing POSEIDON submarines which gives these submarines a greater The TRIDENT mission is to provide an undersea missile system in order to ensure that the based nuclear powered submarines equipped with long range TRIDENT I strategic missiles and associated direct support shore facilities. The TRIDENT I Backfit system provides TRIDENT I U.S. continues to maintain a credible deterrent independent of forseeable threats in the 1990's and beyond. To accomplish this mission, the TRIDENT I missile was developed to support two separate systems. The TRIDENT system is comprised of Continental United States range of patrol in order to insure their survivability in the event of unforseeable enemy breakthroughs in ASW capabilities. Within the current TRIDENT I missile program of 570 missiles procured between FY 1977 and FY 1984, missile production deliveries have been scheduled at quantities necessary to replacement of missiles returned from the fleet for repair and surveillance, and expenditures TRIDENT I missile procurements will support the ultimate deployment of eight TRIDENT submarines, twelve Backfit submarines and additional missiles to continue the Fleet Return and Evaluation Program (FREP) and DASO/FOT programs. Although FY 1984 marked the final year of TRIDENT I missile procurement, funding is required in FY 1985 and subsequent years to support missile flight tests which will continue throughout the operational life of the Weapon system. This testing is essential in order to continue to evaluate the readiness of during demonstration firings and operational testings. Based on current program guidance, maintain quality and a smooth production rate and to provide for submarine requirements, deployed missiles in accordance with Joint Chiefs of Staff test criteria.

The FY 1987 and FY 1983 TRIDENT I missile requests of \$4.7 million and \$18.4 million respectively will provide for the procurement of reentry system components for use in the flight test program and for ongoing weapon system support.

TRIDENT II MISSILE

| (\$ In Thousands) | FY 1988 | Qty Anount | 66 \$1,913,738 |
|-------------------|---------|------------|------------------|
| 11 ul \$) | FY 1987 | Qty Amount | 21 \$1,124,439 |
| | | | Procurement Cost |

The TRIDENT II missile will be carried on TRIDENT Fleet Ballistic Hissile Submarines, ensuring that the United States will continue to maintain a highly survivable strategic deterrent for the 1990's and beyond. Deployment of the TRIDENT II missile will (1) enhance Fleet Ballistic Hissile Submarine survivability by increasing Sea Launched Ballistic Hissile range at full payload to exploit the total patrol area available to the TRIDENT submarine, (2) minimize total weapon system costs by increasing Sea Launched Ballistic Hissile payload to the level permitted by the size of the TRIDENT submarine launch tube, thereby allowing mission capability to be achieved with a lesser number of submarines, (3) balance the Triad by adding efficient hard target kill capability to the Sea Launched Ballistic Hissile, and 4) enhance essential equivalence with the Soviets in accordance with perceived needs to increase our warhead inventory, throw weight, and accuracy in the presence of increasing Soviet capabilities and force levels. Funding in this line is required to support the procurement of an all new TRIDENT II missile, initial production of which commences in FY 1987 and to which the following key program milestones apply:

- First Performance Evaluation Hissile (PEH) flight test Harch 1989 Start PEH missile processing at Strategic Weapons Facility, Atlantic (SWFLANT) July 1988
- SNFLANT installation, test, checkout and equipment/facility integration beginning in FY 1987
 - Equipment procurements in FY 1985 through FY 1988 based on leadtime away requirements

The FY 1987 funding request of \$1,124.4 million will support the initial production of 21 TRIDENT II missiles and associated guidance and flight test instrumentation systems; year's production of 66 TRIDENT II missiles; production of associated guidance and flight test instrumentation systems; procurement of NK-4 and NK-5 reentry systems; tooling and test equipment at contractors' facilities; and additional SWFLANT production planning, activation, and initial equipment outfitting essential to establishing a TRIDENT II missile processing capability. The FY 1988 funding request of \$1,913.7 million will support the first full procurement of 11K-4 and 11K-5 reentry systems; and SWFLANT production planning, activation, and initial equipment outfitting.

TRIDENT II Hissile Advance Procurement

Ai.iount \$370,000 FY 1985 \$ In Thousands) Ariount \$300,000 Advance Procurement Cost

in the procurement line, and funding levels are established commensurate with the quantity of Funding in this line item is required to support the advance procurement of those commodities, components, subassemblies and materials having longer manufacturing leadtimes than the TRIDEMI II end items. Advance procurement requirements for these long lead commodities are budgeted one year in advance of the using end items, which are fully funded end items to be procured.

The FY 1987 request of \$300.0 million and the FY 1986 request of \$370.0 million will provide for procurement of long lead items required to support production in FY 1983 and FY 1989 respectively of TRIDENT II missiles, IK-6 guidance systems, IK-4 and IK-5 reentry systems and flight test instrumentation kits.

MODIFICATION OF MISSILES

(\$ In Thousands)
FY 1980 Estimate - \$ 5,178
FY 1987 Estimate - \$ 95
FY 1986 Estimate - \$ -0FY 1985 Actuals - \$10,294

investigation has established the need for a change in system or equipment configuration, the system. POSEIDON SPALTS are funded only when correction of a known deficiency is required, a Requirements for POSEIDON missile alterations (SPALTS) are determined only after thorough proposal has been subjected to intense screening to determine a positive advantage to the component is no longer procureable in its original configuration, or it is necessary to total estimated cost and the impact of the proposed change have been defined, and the accept a substitute part of an existing subassembly.

POSEIDON Hodifications

(\$ In Thousands)
FY 1987
Amount
Amount
\$ 95

funding in support of the Thrust Vector Control (TVC) Gas Generator SPALT and the First-Stage Motor Nozzle SPALT. Failure to provide the funding requested would increase the potential risk of deterioration in POSEIDON weapon system performance reliability. The FY 1987 and FY 1983 requests of \$0.1 million and \$5.2 million respectively provide

Procurement Cost

SUPPORT EQUIPMENT AND FACILITIES

(\$ In Thousands) FY 1988 Estinate - \$ 2,823 FY 1987 Estimate - \$ 3,790 FY 1986 Estimate - \$12,463 FY 1985 Actuals - \$20,825

The support equipment and facilities requests provide for the procurement of missile industrial facilities.

Missile Industrial Facilities

| nousands) | FY 1988 | Amount | \$2,523 | |
|-----------|---------|--------|----------------|--|
| - u1 4) | FY 1987 | Anount | t \$3,790 \$2, | |
| | | | ocurement Cost | |

Lodification to production equipment and accessories at the Navy-owned Naval Industrial Reserve Ordnance Plant (NIROP) at Sunnyvale, California; for capital rehabilitation and civil Funding for Hissile Industrial Facilities provides for capital rehabilitation of civil Works improvements at the NIROP at Bacchus, Utah; and for civil works improvements at Air works and equipment, equipment and civil works inprovements, and emergency repair and Force Plant 78 near Brigham City, Utah.

buildings; improvements to building equipments that are generated as a result of safety and security requirements; rehabilitation and environmental equipment to control the discharge of pollutants into the atmosphere; and fire protection equipment to support more efficient production and test operations. Non-severable civil works additions and modifications to Navy and Air Force owned Capital rehabilitation and improvement requirements in FY 1937 and FY 1988 include the following:

BUDGET ACTIVITY 2: OTHER MISSILES

CONTRACTOR OF THE AND ASSESSED TO SERVICE OF THE SE

(\$ In Thousands)
FY 1988 Estimate - \$ 3,998,565
FY 1987 Estimate - \$ 3,343,063
FY 1986 Estimate - \$ 3,455,859
FY 1985 Actual - \$ 3,104,351

Purpose and Scope of Work

provide for other missile support, ordnance support equipment, weapons industrial facilities and for the support of satellites, launches, and associated equipment for the Fleet Satellite Communication System and the Defense Meteorological Satellite program. Funds budgeted under this activity finance the procurement and modification of strategic and tactical guided missiles, drones and decoys, and aerial targets. In addition, funds

assembly of these items, such as production engineering, production proofing, and (3) special Aerial targets are required to support training programs and to permit evaluation of missile performance. Drones and decoys are procured to improve the survivability of Navy aircraft, funds provide for (1) the components that comprise the end-items, such as guidance, control, motors, warheads, and fuzes, (2) effort and hardware associated with the production and sustainability objectives, combat usage, quality assurance testing, and training purposes. handling and test equipment, training materials and other specialized items required for operational Fleet support of the item. Guided missiles are procured for operational inventory requirements to meet combat and to provide gunfire support and essential relays in tactical situations.

Justification of Funds

The Chief of Naval Operations establishes operational and training objectives consistent with the Navy's assigned role in national defense. These objectives are translated into annual procurement programs in accordance with logistics guidance set forth by the Secretary of Defense, taking into account available fiscal resources. The resultant procurement plan is designed to maintain an effective mix of weapons in the combat inventory, and to provide developing the plan, the Navy considers production feasibility and assures that missile deliveries are compatible with aircraft and ship testing, production, development, and weapons and targets in support of training, evaluation, and pipeline requirements. deployment schedules.

programs. Initial spare parts amounts are included for information under each missile but are separately addressed in the spares and repair parts section of the Budget Activity The following paragraphs provide justification for the Other Missiles procurement justification.

Strategic Missiles

Process (Section Company (Section Company)

FY 1988 Estimate - \$ 908,099 FY 1987 Estimate - \$ 790,536 FY 1986 Estimate - \$ 724,804 FY 1985 Actual - \$ 553,343 (\$ In Thousands)

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BGM-109 TOMAHAWK Cruise Missile

| | | | | \$835,653 |
|--|-------------|---------------------|----------------|------------------|
| | Procurement | Advance Procurement | Initial Spares | Procurement Cost |

(anti-ship TOMAHAWK) and on land (land-attack TOMAHAWK). TOMAHAWK is capable of being launched from aircraft, ships, submarines, and ground launchers. The cruise missile can be fitted witn either a conventional high explosive or nuclear warhead, and is propelled in flight by a small turbofan engine. The FY 1987 request of \$790.5 million, which includes \$68.8 million of advance procurement for FY 1988, will procure 120 anti-ship and 204 land-attack missiles. The Tomahawk missile is designed to be deployed in submarines and surface The TCMAHAWK Cruise Missile provides an attack capability against targets at sea ships in a variety of launchers.

Tactical Missiles

FY 1988 Estimate - \$2,548,877 FY 1987 Estimate - \$2,333,249 FY 1986 Estimate - \$2,568,524 FY 1985 Actual - \$2,301,991 (\$ In Thousands)

submarine-launched missiles, other missile support, aerial targets, and drones and decoys. Funds budgeted under this category finance the procurement of air-, surface-, and

AIM/RIM-7F/M SPARROW Missile

| | i | • |
|------------------|-----------------|-----------------|
| | (\$ In Thousa | uds) |
| | FY 1987 | FY 1988 |
| | 0 ty Amt | 0ty Amt |
| Procurement | 1,716 \$279,394 | 1,594 \$271,642 |
| Initial Spares | 1,000 | 2,577 |
| Procurement Cost | \$280,394 | \$274,219 |

down/clutter capability, was introduced into the FY 1980 procurement. The RIM-7M for surface launch will eventually replace both the RIM-7E and RIM-7H. Initial procurement of 80 RIM-7M's was in FY 1981. The \$279.4 million requested in FY 1987 provides for the procurement of 1,451 AIM-7M and 265 RIM-7M missiles. The FY 1987 AIM/RIM-7M procurement of 2,095 missiles (1,715 missiles for Navy and 379 missiles for Air Force) will be produced The monopulse seeker (AIM-7M), which has improved electronic countermeasures, fuzing and look through a competition between Raytheon and General Dynamics. The requested procurement of 1,716 missiles in FY 1987 is needed to build up the operational inventory, to meet combat employed by F-4, F-14, F-15, and F-18 aircraft against high performance aircraft and a surface-to-air missile employed with the NATO SEASPARROW system on various Naval vessels. sustainability objectives and to replace missiles in inventory, as earlier, less capable SPARROW is both a supersonic, all-weather, all-aspect-capable, air-to-air missile versions of SPARROW are expended in training.

AIM-120A AMRAAM

| FY 1988 | Qty Amt | 668'6 \$ - | 3,000 | 1 | \$12,899 | |
|---------|---------|-------------|---------------------|----------------|------------------|--|
| FY 1987 | 0ty Amt | | • | • | l ₩ | |
| | | Procurement | Advance Procurement | Initial Spares | Procurement Cost | |

(\$ In Thousands)

AMRAAM missiles planned for FY 1989 and includes \$3.0 million for advance procurement of long executive service. The missile will provide an all-weather, all-aspect, beyond visual range air-to-air missile compatible with the F-14, F-15, F-16, F/A-18, and A-6E upgrade aircrafts. The \$12.9 million requested in FY 1988 will be used to procure special tooling and test ead materials to support the FY 1989 procurement. The AMRAAM missile will enhance Navy war fighting capability in the 1990's and beyond through significant improvements in operational equipment, and non-recurring start-up costs required to support the initial procurement of The AMRAAM (Advanced Medium Range Air-to-Air Missile) is the successor to the SPARROW missile being procured jointly by the Air Force and the Navy. The Air Force serves as utility and combat effectiveness.

AIM-9L/M SIDEWINDER Missile

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and Landers (separated Landerscape) transfer (separated

| (\$ In Thousa | FY 1987 FY 1988 | Qty Amt Qty | 627 \$46,977 488 | 17,641 | 615 | \$65,233 |
|---------------|-----------------|-------------|------------------|---------------------|----------------|------------------|
| | | | Procurement | Advance Procurement | Initial Spares | Procurement Cost |

The SIDEWINDER AIM-9L/M is a joint Navy and Air Force short-range, air-to-air, infrared (IR), dogfight missile employed by both fighter and attack aircraft. The all-aspect launch capability is a significant improvement over previous SIDEWINDER versions and greatly increases the firing envelope. The AIM-9M, a product improvement of the AIM-9L, provides for base producers, Ford Aerospace and Raytheon, with the winner being awarded a larger quantity. The \$64.6 million requested in FY 1987 will procure 627 missiles that are required improved counter-countermeasures capability and an improved ability to acquire targets in a high IR clutter background. The procurement of 2,337 guidance units (627 missiles for Navy and 1,710 missiles for Air Force) in FY 1987 will be competed between the two mobilization procurement of key guidance and control section parts required to provide production surge short-range air-defense missile through the 1990's and includes \$17.6 million for advance to continue inventory build up of the AIM-9M version, which will be the first-line

AIM-54A/C PHOENIX Missile

| uI \$) | FY 1987 | Qty Amt | 205 \$289,2 | 28,4(| ထိုက | \$321,482 |
|--------|---------|---------|--------------------|--------------------|----------------|-----------------|
| | | | Procurement | dvance procurement | Initial Spares | rocurement Cost |

lethality, stream raid discrimination, electronic counter countermeasure (ECCM) performance, high- and low-altitude performance, and improved reliability and maintainability. As a The PHOENIX missile system is comprised of a long-range airborne weapon control system (AN/AWG-9) with multiple target-handling capabilities and long-range missiles utilizing targets with conventional warheads. Six such missiles can be carried aboard the F-14 aircraft. Near simultaneous launch is possible against six targets in an all-weather and heavy-jamming environment. The improved PHOENIX missile, the AIM-54C, provides improved semi-active mid-course and active terminal guidance. Its mission is to kill multiple air result of these improvements, the missile has greater capability to counter the projected MIG-25

Competitive procurement of the PHOENIX missile is scheduled to begin in FY 1989. The FY 1987 for FY 1988, will finance the procurement of 205 PHOENIX missiles configured in the improved AIM-54C version including 56 validation missiles from the planned second source contractor. he \$317.7 million requested in FY 1987, which includes \$28.4 million of advance procurement OXBAT aircraft and cruise missile threats. The PHOENIX does not replace any other missile. missiles are needed to increase the number of operational PHOENIX missiles in the active inventory, and to offset the loss of older AIM-54A missiles that are expended or suffer irreparable failure.

STATE OF THE STATE

AGM/RGM/UGM-84A/E HARPOON Missile

| | (\$ In Thousands) | FY 1987 FY 1988 | Oty Amt Oty Amt | 94 \$128,387 204 \$197,132 | - 11,476 | 13,905 19,089 | \$153,768 \$216,221 |
|--------------------------------|-------------------|-----------------|-----------------|----------------------------|---------------------|----------------|---------------------|
| /KGM/UGM-84A/E HAKPOON MISSILE | | | | Procurement | Advance Procurement | Initial Spares | Procurement Cost |

attack capability against targets at sea and on land. It uses an active or passive seeker, radar altimeter, and attitude reference assembly in conjunction with a small digital computer for missile guidance and control. It is propelled by a turbo-jet sustainer engine augmented submarine launch systems. The missile is planned for use aboard the FF-1052, DDG and DD-963, CG, CGN, PHM, BB and FFG class ships, the P-3, S-3, A-6, F/A-18, and B-52G aircraft and nuclear attack submarines. The 1987 request of \$139.9 million provides for procurement of 94 is compatible with the TARTAR, TERRIER, and ASROC ship launchers as well as with aircraft and The HARPOON is an air-, surface-, and submarine-launched cruise missile that provides an adequate availability of weapons as new platforms become operational, and to offset missile ncludes \$11.5 million for advance procurement of key guidance and control section parts by a solid booster for ship and submarine launch. The missile has a standard 13.5-inch diameter with a weight of 1,100 pounds for air launch and 1,500 pounds for ship launch. equired to provide production surge capability. These weapons are requested to ensure HARPOON missiles (75 air-launch anti-ship and 19 air-launch land-attack missiles) and expenditures due to training and test requirements.

AGM-88A HARM Missile (MYP)

| FY 1988 | Qty Amt | 1,492 \$336,559 | 12,031 | \$348,590 |
|---------|---------|-----------------|----------------|------------------|
| FY 1987 | Qty Amt | 1,110 \$256,682 | 5,568 | \$262,250 |
| | | Procurement | Initial Spares | Procurement Cost |

(\$ In Thousands)

and STANDARD ARM, and is planned to replace both missiles in the Navy inventory. HARM characteristics include: high speed, large-launch envelope, wide-band-frequency coverage in a The High Speed Anti-Radiation Missile (HARM) is a joint Navy and Air Force air-to-surface missile designed to suppress or destroy land- and sea-based radars supporting enemy air defense systems. HARM is a design evolution of anti-radiation missiles (ARM) such as SHRIKE Navy. Failure to provide the requested number of missiles will seriously degrade the Navy's ability to counter the threat to aircraft and aircrews posed by enemy air defense systems during combat. This procurement in FY 1987 will also significantly increase the number of single head, high sensitivity, and compatability with various naval aircraft. The HARM has evolved from known and predicted deficiencies in SHRIKE and STANDARD ARM missiles in missiles in the inventory. The FY 1987 procurement represents the first year of a proposed three year multiyear joint Navy and Air Force procurement program. In FY 1987, 3,240 HARM missiles will be produced (1,110 missiles for Navy and 2,130 missiles for Air Force). defeating current and future enemy air defense systems. Initial procurement commenced in FY 1981. The FY 1987 request of \$256.7 million will procure 1,110 HARM missiles for the

STANDARD MISSILE MEDIUM RANGE (MR) SM-2

| FY 1988 | 0ty Amt 850 \$512,734 9,112 \$521,846 |
|---------|---|
| FY 1987 | 0ty Amt 844 \$513,611 10,959 \$524,570 |
| | Procurement Initial Spares Procurement Cost |

(\$ In Thousands)

will be evaluated in FY 1986, leading to a directed buy. The FY 1987 budget request includes surface-to-surface missile with mid-course guidance, semi-active homing guidance and home-on jamming capability, and proximity and contact fuzing for use on TARTAR, AEGIS, and DDG-51 Class Ships. The FY 1987 request of \$513.6 million for 844 missiles supports AEGIS and TARTAR cruisers. To reduce the procurement cost of this missile, a second production source Tne STANDARD HR (SM-2) is a solid-propellant, tail-controlled, surface-to-air and funding to combine development of a second production source.

STANDARD MISSILE EXTENDED RANGE (ER) SM-2

| | FY 1987 | FY 1988 |
|------------------|---------------|---------------|
| | Qty Amt | Qty Amt |
| Procurement | 350 \$217,017 | 400 \$234,519 |
| Initial Spares | 6,011 | 5,156 |
| Procurement Cost | \$223,028 | \$239,675 |

(\$ In Thousands)

surface-to-surface missile with mid-course guidance, semi-active homing guidance and home-on jamming capability, and proximity and contact fuzing for use on TERRIER missile ships. The FY 1987 request of \$217.0 million for procurement of 350 Block II ER missiles will provide additional assets to meet sustaining requirements in support of TERRIER Guided Missile The STANDARD ER (SM-2) is a solid-propellant, tail-controlled, surface-to-air and Cruiser/New Threat Upgrade (CG/NTU) ships.

RIM-116A ROLLING AIRFRAME MISSILE (RAM)

| | | | | \$79,262 |
|---------|----------|-------------|----------------|------------------|
| FY 1987 | 0 ty Amt | 50 \$63,209 | • | \$63,209 |
| | | Procurement | Initial Spares | Procurement Cost |

(\$ In Thousands)

that holds 21 missiles. Components of the missile will be procured competitively between a U.S. and a German Prime contractor. The FY 1987 budget request of \$63.2 million will provide The Rolling Airframe Missile (RAM) is a high-power, low-cost, lightweight, complementary modified to hold five (5) RAM rounds each; and a RAM stand-alone Command and Launch System radar-frequency/infrared guidance and will be fired from two launching systems: the NATO SEASPARROW Surface Missile System (NSSMS), of which two cells of the NSSMS system will be self-defense system to engage anti-ship capable missiles. It has dual-mode passive for the manufacture of 50 production missiles, and associated support costs.

FIM-92A STINGER Missile

Procurement Initial Spares Procurement Cost

| Thousands) | FY 1988 | Oty Amt | 1 | 1 | 1 |
|-------------|---------|---------|--------------|---|----------|
| uI \$) | FY 1987 | Qty Amt | 685 \$51,940 | 1 | \$51,940 |
| 1 | | | | | |

low-altitude and close-range self-defense against aircraft and helicopters. STINGER utiliza a passive infrared homing guidance system that operates independently after initial aiming STINGER is an advanced man-portable air defense system. It provides Navy forces with and launching by the operator. The system is composed of the missile and launcher, unit trainers and ancillary equipment. The STINGER replaces the REDEYE weapon system.

AGM-122A SIDEARM Missile

| FY 1987 FY 1988 | Oty Amt Oty Amt | 256 322.858 256 923.726 | 55 25 | \$22,913 |
|-----------------|-----------------|-------------------------|----------------|------------------|
| | | Procurement | Initial Spares | Procurement Cost |

The SIDEARM is a short-range, limited frequency-band, anti-radiation missile developed to modifications to existing rotary and fixed wing avionics interface are required. The SIDEARM counter point defenses. The Marine Corps plans to primarily use the missile system as a quick reaction, point and shoot weapon from the AH-l attack helicopter. Future plans are to launch the SIDEARM from SIDEMINDER configured AV-8B, F/A-18, and OV-10D aircraft. No There are approximately 1,000 GCS assets, currently in storage of which it is estimated that 885 will be suitable for conversion to the SIDEARM configuration. Procurement commences in FY 1986 with an initial production of 200 missiles. The FY 1987 request of \$22.9 million is uses converted AIM-9C guidance and control section (GCS), integrated with components (motor, fuze, warhead, and safe and arm device) from current production AIM-9M SIDEWINDER missiles. required for follow-on procurement of 256 missiles.

AGM-114A HELLFIRE Missile

Procurement Cost

Procurement Initial Spares

| FY 1988 | Uty Amt 1 824 462 483 | 2,173 | \$64,650 |
|---------|--------------------------|-------|----------|
| FY 1987 | Uty Amt | 1,172 | \$1,175 |
| | | | |

(\$ In Thousands)

THE SECTION OF THE PARTY OF THE

becomes interests transfer by the become

requirements. Although there is no Navy procurement planned for FY 1987, procurement resumes in FY 1988 for 1824 missiles. HELLFIRE, developed by the Army, provides the Marine Corps with an extremely effective anti-armor weapon for use on AH-IT/J helicopters. From FY 1984 through FY 1986, 1,961 missiles were procured to build up the inventory of HELLFIRE to satisfy Marine Corps

AGM-65E LASER MAVERICK Missile

| (\$ In Thousands) | FY 1987 FY 1988 | Oty Amt Oty Amt | 1,800 \$198,791 575 \$72,017 | 2,930 9,670 | \$201,721 \$81,687 |
|-------------------|-----------------|-----------------|------------------------------|----------------|--------------------|
| | | | Procurement | Initial Spares | Procurement Cost |

land- or carrier-based aircraft and will be delivered primarily for A-4M, AV-8B, F/A-18, and A-6E Marine Corps aircrafts. It will be used for interdiction, close-air support and strike requirements against both land and sea targets. In FY 1987, \$198.8 million is requested for follow-on procurement of 1,800 LASER MAVERICK missiles. The FY 1987 procurement is required to build inventory levels of LASER MAVERICK to satisfy interdiction, close-air support, and The LASER MAVERICK is a forward-fired, laser-guided missile that can be employed from strike requirements.

AGM-65F IIR MAVERICK Missile

| I | 0ty Amt 0ty Amt 419 \$52,055 927 \$91,323 250 911 \$52,305 \$92,234 |
|---|--|
| | Procurement Initial Spares Procurement Cost |

The Imaging Infrared (IIR) MAVERICK missile has been developed as a joint service program The IIR MAVERICK missile guidance unit optimized for ship tracking, a 300-pound penetrating blast/fragment warhead with cockpit-selectable fuzing, and a reduced-smoke rocket motor. The IIR MAVERICK missilwith provide the Navy and Marine Corps with the capability to attack land and sea targets with the Air Force as executive service. The Navy version of the weapon utilizes an IIR

missiles to improve the inventory position. Failure to add the weapon to the inventory will require that attack aircraft utilize munitions with less stand-off capability that will from a more survivable position below and outside of close-in air defense systems. Th FY 1987 request of \$52.1 million will provide for the procurement of 419 IIR MAVERICK decrease aircraft survivability and increase the likelihood of aircraft loss.

PENGUIN Missile

Initial Spares Procurement Cost

Procurement

| Thousands) | FY 1988 | Qty Amt | 35 \$18,574 | 1,675 | \$20,249 |
|------------|---------|---------|-------------|-------|----------|
| uI \$) | FY 1987 | Qty Amt | | | 57 |

missile is planned for use on the LAMPS MK III SH-60B helicopter as an anti-ship weapon. The MK 2 Mod 7 PENGUIN missile is a modification of the surface-launched MK 2 Mod 3 missile. The FY 1988 request of \$18.6 million provides for the initial procurement of 35 PENGUIN missiles. controlled by an infrared countermeasures resistant seeker, which is automatically activated when the missile reaches a preset range from the predicted position of the target. The The PENGUIN missile is an autonomous short-range, air-to-surface weapon that is

Aerial Targets

| | | | | | | | (\$ In Thousands | ousands) |
|-------------------|-----|----------|---------|----------|-------|-----------|------------------|-----------|
| | | | FY 1987 | | | L | Y 1988 | |
| | | | INITIAL | | | | NITIAL | |
| | QTY | AMI | SPARES | TOTAL | OΤΥ | AM⊤ | SPARES | TOTAL |
| AQM-37C | 8 | \$16,202 | 8 | \$16.282 | 8 | \$16.571 | 84 | \$16,655 |
| BQM-74C | • | 1,186 | ı | 1,186 | ı | | • | , |
| BQM-34S | 97 | 47,371 | • | 47,371 | • | 1,360 | • | 1,360 |
| BQM-126A | • | • | t | 1 | 200 | 62,500 | 1,399 | 63,899 |
| Tow Targets | 99 | 12,585 | 335 | 12,920 | 1.100 | 8,100 | , 8 | 8,190 |
| All Other Targets | | 20,042 | 460 | 20,202 | | 15,434 | 173 | 15,705 |
| | | \$97,386 | \$875 | \$98,261 | | \$103,965 | \$1,844 | \$105,809 |

Aerial targets provide representative threats needed to properly evaluate weapons systems The BQM-74C and the BQM-34S are both The AQM-37C is a non-recoverable, supersonic target, which In FY 1987, the AQM-37C and BQM-34S recoverable, subsonic targets that are required for both surface-to-air and air-to-air and to provide for an effective Fleet training program. missile and gunnery exercises. replicates high speed threats.

of procurements, and the tow targets procurement and modification program costs \$76.2 million the total \$97.4 million. The remaining \$21.2 million finances the material costs for the conversion of F-86 aircraft into QF-86 full-scale aerial targets and TALOS missiles into MQM-8X supersonic full-scale targets, and target auxiliary equipment required for target control and augmentation, and BQM-74C support costs.

THE PARTY OF THE P

SUPPLIED SECTION PROPERTY SECTION

Drones and Decoys

(\$ In Thousands)

| FY 198 | \$18,16 |
|---------|----------|
| FY 1987 | \$36,136 |

∞ |**σ**

continuing requirement for these devices. Tactical decoys have been proven effective against provide intelligence, battlefield surveillance, Naval/artillery gunfire support, and communication relays. In FY 1987, \$36.1 million finances the continued procurement of needed air defenses and will significantly improve the survivability of Navy aircraft. The Tactical aircraft. It provides passive and active radar cross-section signature augmentation for use as a force-multiplier. Remotely Piloted Vehicles are low-speed, long-endurance systems that Air-Launched Decoy is a high speed preprogrammed tactical decoy carried on A-6 and A-7 Analysis of the successful use of small-scale, air-launched decoys has revealed a drones and decoys.

Other Missile Support

(\$ In Thousands)

| FY 1988 | \$21,662 2,113 | \$23,775 |
|---------|-------------------|-----------------|
| FY 1987 | \$22,017 991 | \$23,008 |
| | | |
| | | <u>,</u> |
| | Procurement | Procurement Cos |

support the missile system readiness in the fleet such as material for maintenance, testing, combatants capable of launching missiles for all warfare areas and adaptable to present and The VLS is a missile launching system for surface inertially guided anti-submarine warfare (ASW) missile employing a nuclear warhead that is aunched from conventional torpedo tubes, and for procurement of Vertical Launching System (VLS) canisters, which are used as shipping containers, to house the missiles in the VLS cells, and to act as a launching tube. SUBROC fleet support includes items required to The Other Missile Support program provides fleet support material for SUBROC, an missile assembly, repair, and overhaul. future weapons control systems. (\$ In Thousands)

\$2,77,73 **\$8**,833

FY 1988 Estimate - \$37,614 FY 1987 Estimate - \$13,692 FY 1986 Estimate - \$59,603 FY 1985 Actual - \$32,017

for air-launched and surface-launched missile modifications. Funds requested provide for the The FY 1987 budget request for missile modifications is \$13.7 million and includes funds procurement of modification kits only; all installation costs are budgeted in the Operation and Maintenance, Navy appropriation.

FY 1987 Modification Programs

Surface-Launched Missiles STANDARD Missiles \$2,093 TOMAHAWK 7,235 TOTAL \$9,328

(**\$** In Thousands)

* SPARROW can also be surface launched.

\$1,233 3,131 \$4,364

SPARROW* SIDEWINDER

TOTAL

Air-Launched Missiles

to correct deficiencies found in Technical Evaluation/Initial Operational Test and Evaluation (TECHEVAL/IOT&E) and AIM-7F battery and shear wafer changes. The SIDEWINDER missile Funds for FY 1987 air-launched missile modification programs are required to improve and update the operational characteristics of SPARROW and SIDEWINDER missiles. The SPARROW missile modification program, budgeted at \$1.2 million, provides for AIM/RIM-7M improvements modification program, budgeted at \$3.1 million, provides for modification of the missile airframe to improve reliability, producibility, and maintainability.

required to procure warhead/safety & arming devices to accompany the MK 45 target detection device Mod 6 fuzes for SM-1 MR. The fuze package provides the missile with improved The FY 1987 STANDARD missile modification program request is \$2.1 million. Funding is performance against low-altitude threats. The TOMAHAWK missile modification program budgeted at \$7.2 million provides for continued improvement of the guidance set flight computer that allows anti-ship TOMAHAWK missiles to operate from a wider range of launch platforms.

FY 1988 Modification Program

EX.

(\$ In Thousands)

| Missiles | 3,696 | 3,295 | 3,388 | 11,416 | \$21,795 |
|--------------|----------|------------|----------|-----------|----------|
| Air-Launched | SPARROW* | SIDEWINDER | PHOEN IX | HAR POON* | TOTAL |

Surface-Launched Missiles
STANDARD Missiles \$7,722
TOMAHAWK 8,097
TOTAL \$15,819

' SPARROW and HARPOON can also be surface launched.

The FY 1988 funds required for the air-launched missile modification programs are budgeted at \$21.8 million and continue required modifications for SPARROW, SIDEWINDER, PHOENIX and HARPOON missiles. The FY 1988 STANDARD missile modification program, budgeted at \$7.7 million, continues the required modifications of STANDARD MR and ER rocket motors and sustainer sections.

The FY 1988 TOMAHAWK missile modification program is budgeted at \$8.1 million to continue the improved guidance set flight computer modification and initiate signal certification device modification.

Support Equipment and Facilities

(\$ In Thousands)

FY 1988 Estimate - \$503,975 FY 1987 Estimate - \$205,586 FY 1986 Estimate - \$102,928 FY 1985 Actual - \$217,000 Support Equipment and Facilities include the Weapons Industrial Facilities, the Defense Metrological Satellite, and the Fleet Satellite Communications, and Ordnance Support Equipment programs. Initial and replenishment spares are included in FY 1985, but beginning in FY 1986, Initial and replenishment spares are budgeted in Budget Activity 5.

Weapons Industrial Facilities

(\$ In Thousands)

FY 1987 \$7,490

FY 1988 \$10,259

maintenance, emergency repairs, fire protection improvements, and energy conservation. These funds provide for nonrecurring capital maintenance at government-owned missile and weapon producing industrial plants as well as emergency repairs and improvements designed to reduce The FY 1987 and 1988 estimates of \$7.5 million and \$10.3 million, respectively, missile and other ordnance producing industrial facilities include funds for capital Fire and other safety hazards.

Defense Meteorological Satellite

(\$ In Thousands)

FY 1988

FY 1987

\$18,793

spacecraft that will fulfill Navy data requirements for surface wind speed, precipitation intensity and identification of ice edge, ice coverage and ice age in polar areas. The \$18.8 million requested in FY 1988 will procure two imagers for the Navy. imagers. The imager has been developed and previously procured under a joint Navy/Air Force The Defense Metrological Satellite program funds the Navy's procurement of microwave The imager is a new sensor tailored for operation onboard a new series of

Fleet Satellite Communications

(\$ In Thousands)

FY 1987

FY 1988

\$65,138

\$118,297

protected fleet broadcast service to all Navy ships plus a vital command control service to all Anti-Submarine Warfare (ASW) platforms, Fleet Ballistic Missile (FBM) submarines, aircraft carriers, cruisers and other selected aircraft, ships and submarines. The system also satisfies the Air Force equatorial satellite communication requirements including presidential airborne command posts, Strategic Air Command and emergency mission support communications. A constellation of channelized satellites, placed in geo-stationary orbits, is used to meet Navy and Air Force UHF communications requirements. The worldwide four worldwide Ultra High Frequency (UHF) mobile user communication requirements. This includes satellite constellation FLTSATCOM system is fully operational and is meeting or exceeding The Fleet Satellite Communications (FLTSATCOM) system satisfies the Navy's urgent performance requirements.

initial on-orbit test, checkout and acceptance for operational use, of replenishment spacecraft F-7 and F-8. The remaining \$28.1 million in FY 1987 and \$118.3 million in FY 1988 Day for acquisition of the follow-on replenishment spacecraft to be launched in the early The \$37.0 million requested for FY 1987 provides for the Jaunch, Jaunch support, and

Ordnance Support Equipment

(\$ In Thousands)

FY 1987 FY 1988

\$132,958 \$356,626

No justification materials are submitted due to security considerations.

Budget Activity 3: Torpedoes and Related Equipment

(\$ in Thousands)

FY 1988 Estimate -1,266,996

FY 1987 Estimate - 971,364

FY 1986 Estimate - 782,732

FY 1985 Actual - 724,200

weapons such as torpedoes, mines and underwater targets, torpedo and mine modifications, and associated support equipment items related to production, as well as acquisition of other Purpose and Scope of Work: These funds provide for the procurement of anti-submarine/ship equipment and support necessary to maintain fleet readiness.

Justification of Funds: Of the \$971.4 million requested in FY 1987, \$821.1 million is for procurement of torpedoes and related equipment, \$97.7 million is for modification of torpedoes and related equipment, and \$52.6 million is for procurement of support equipment.

torpedoes and related equipment, \$63.0 million is for modification of torpedoes and related equipment, and \$59.3 million is for procurement of support equipment. Of the \$1,267.0 million requested in FY 1988, \$1,145.7 million is for procurement of

Initial spares and repair parts are provided for informational purposes and are included in Budget Activity 5 beginning in FY 1986.

Torpedoes and Targets

(\$ in Thousands)

FY 1988 Estimate - 1,144,684

FY 1987 Estimate - 821,049

FY 1986 Estimate - 606,398

FY 1985 Actual - 596,000

AUCAP torpedoes, \$17.0 million is for procurement of 34 Anti-Surface Warfare (ASUW) torpedoes, \$74.1 million is for procurement of 500 MK-46 NEARIIP torpedoes, \$23.8 million is for procurement of MK-46 long lead material (Advance Procurement) \$109.9 million is for procurement of 84 MK~50 Advanced Lightweight Torpedoes, \$13.6 million is for procurement of ASROC replacement components, and \$74.3 million is for procurement of 200 Vertical Launched Of the \$821.1 million requested in FY 1987, \$508.4 million is for procurement of 227 MK-48

Of the \$1,144.7 million requested in FY 1988, \$552.6 million is for the procurement of 296 MK-48 ADCAP torpedoes, \$30.9 million is for procurement of 110 Anti-Surface Warfare (ASUW) torpedoes, \$87.7 million is for the procurement of 500 MK-46 NEARTIP torpedoes, \$39.4 million warheads), and \$346.9 million is for procurement of 204 NK 50 Advanced Lightweight Torpedoes. is for procurement of 12 HK-30 Mobile Targets, \$13.7 million is for procurement of ASROC Feplacement components, \$73.5 million for 300 Vertical Launch ASROC missiles (less

he following paragraphs provide justification for the FY 1987 and FY 1988 Torpedoes and Related Equipment request.

Torpedo IIK-48 Advanced Capability (ADCAP)

| | (\$ in Thousands) | 1987 FY 1988 | Ahit OTY AM | 508,370 296 552,562 | 22,500 11,730 | 530,870 564,292 |
|---|-------------------|--------------|-------------|---------------------|---------------|-----------------|
| , | | FY | VIO | | | |
| | | | | rocurement | nitial Spares | rocurement Cost |

improvements in the propulsion system will allow the torpedo to go faster, deeper and farther than the current IK 43 torpedo. These improvements will allow the ADCAP torpedo to operate in adverse environments such as shallow water, high sea conditions, strong thermal gradients and under ice. FY 1987 and FY 1988 provide for procurement of 227 and 296 ADCAP torpedoes, HK-48 to counter enemy submarine threats through the 1990's. The improvements in the guidance and control systems will allow the ADCAP torpedo to operate against targets with orpedo IK 48 ADCAP (Advanced Capability) was developed as an improvement to the Torpedo respectively, production support equipment, production support and continuation of competition for the Afterbody/Tailcone (second source). reduced sonar target strength and targets which present a low doppler profile and

ASUM Torpedo

| FY 1987 FY 1988 QTY AHT QTY AH 34 16,995 TTO 30 16,995 30 |
|--|
| |

(\$ in Thousands)

alternative to attack targets that do not warrant a more expensive weapon. F 1987 funding is to procure 34 anti-surface ship torpedoes. FY 1988 provides for on-going procurement of 110 ASUW torpedoes. This weapon is intended to provide a cheap ne ASUW torpedo will be a lower cost weapon designed to be effective in anti-surface ship engagements.

Torpedo MK-46 (MYP)

_ AMT 87,746 FY 1988 FY 1987 Initial Spares Procurement Cost

Procurement

(\$ in Thousands)

ine item; Mod 5 kits, procured under the Torpedo MK-46 Mods line item, also will be included in the multiyear procurement. ASROC launchers, fixed wing and rotary wing aircraft. The Torpedo MK-46 (NEARTIP) is an improved version of the MK-46 Torpedo Mod 1 and features improved countermeasures resistance and an improved acoustic system. FY 1987 and FY 1988 resources provide for continued procurement of the NEARTIP (Mod 5) version of the Torpedo MK-46, fleet support items, production support and proofing under a three-year multiyear procurement (FY 1986 through FY 1988). Long lead materials are being procured under the Torpedo MK-46 Advance Procurement The Torpedo MK-46 is a lightweight ASW torpedo launched from surface ship torpedo tubes,

Torpedo MK-46 (MYP) Advance Procurement

(\$ in Thousands) FY 1987 23,800 Procurement Cost Initial Spares Procurement

latter year of a three-year multiyear procurement program for the Torpedo MK-46, FY 1986 through FY 1988. This multiyear procurement approach, which includes MK-46 ORDALT kits, separately justified under the Torpedo MK-46 Mods line item, is expected to effect total cost FY 1987 funding provides for procurement of long lead material required to implement the savings of \$51.4 million for both torpedoes and kits over the three year period.

Torpedo IIK-50 Advanced Lightweight Torpedo

XXXX

Section 1

CONTRACTOR OF THE PARTY OF THE

346,880 9,826 356,706 (\$ in Thousands) FY 1987 FV QTY Ahr 84 ANT 109,937 8,805 118,742 Procurement Cost Procurement Initial

Surface and ASW air weapon systems, providing an underwater submarine destination capability to meet the Navy's needs in the late 1980's and 1990's period. ALWT will provide a replacement for the existing Torpedo NK-45 currently in the Navy inventory. \$109.9 million is requested in FY 1987 for 84 ALWT weapons with follow-on procurement in FY 1988 of 204 units for a total of \$346.9 million. ALWT will provide an ASW torpedo for the

Mobile Target MK-30

39,431 39,431 (\$ in Thousands) FY 1987 FY 198 QTY AMT QTY

Procurement Cost

Initial Spares

Procurement

Anomaly Detection (MAD) gear. The procurement of targets in FY 1988 continues the build up provides the basic training capability to exercise surface ship and submarine sonars, actively and passively fired torpedoes, and aircraft equipped with sonobuoys and Magnetic or assets to support achievement of 2,400 IK-30 in-water runs per year at four underwater The IK-30 Hobile Target provides air, surface and submarine ASM units with the means to conduct realistic exercise firings on three-dimensional underwater ranges. This target

ASROC Component Replacement

T3,67Z 13,672 (\$ in Thousands)
FY 1987 FY 1988

QTY AMT QTY
- 13,597 - 13

Procurement Cost

Initial Spares

Procurement

The ASROC (Anti-Submarine Rocket) is a weapon system designed around a range-controlled, unguided rocket missile which carries a torpedo or a depth charge as a payload. ASROC is utilized by most surface combatants to defend against high performance enemy submarines.

FY 1987 and FY 1988 requests provide for procurement of ASROC components to replace those that were expended during fleet training exercises. The principal element of cost in FY 1987 and FY 1988 is the continued procurement of rocket motor and Ignition Separation Assemblies MK-4 (ISA). The ISAs are being procured in a new design which makes them safe from the hazards of accidental detonation caused by shipboard electromagnetic equipment (designated HERO: Hazards of Electromagnetic Radiation to Ordnance). Procurement of the HERO-safe MK-4 ISA is required in order to replenish inventories of the older non-HERO safe MK-3 ISAs depleted by training losses and will eventually replace the entire inventory of the older components.

Vertical Launch ASROC

| - | 88 | AMT | 73,542 | 135 | 73,677 |
|----------|-----------------|-----|------------|----------------|--------|
| クラーヴィランニ | FY 19 | QTY | 3 | | |
| = +> | FY 1987 FY 1988 | AMT | 74,289 | 756 | 75,045 |
| | Y- | ΩTΛ | <u>200</u> | | |
| | | | | Initial Spares | |
| | | | Procu | Initi | Procu |

provide a vertically launched weapon to a greater distance with equal accuracy utilizing the latest torpedo/depth charge configuration. The FY 1987 request is for procurement of a limited initial quantity of 200 units with a follow-on in FY 1988 of 300 units. Pertical Launch ASROC is a replacement system for the older ASROC weapon system. It will

Modification of Torpedoes and Related Equipment

| ds) | 63,050 | 97,705 | 109,505 | 32,200 |
|-------------------|----------|----------|----------|--------|
| san | | ı | • | 1 |
| (\$ in Thousands) | Estimate | Estimate | Estimate | Actual |
| <u></u> | 1988 | 1987 | 1986 | 1985 |
| | ¥ | ₹ | FΥ | Ŧ |
| | | | | |

The \$97.7 million in FY 1987 and the \$124.6 million in FY 1988 are requested to fund the following modification programs.

| | ul ul 🍫) | ousands) |
|-----------------------|---------------|----------|
| | FY 1987 | FY 1988 |
| MK46 Torpedo Nods | 76,975 49,275 | 49,275 |
| MK-46 Torpedo Hods | 5,200 | • |
| Advance Procurement | | |
| CAPTOR Mods | 11,619 | 12,301 |
| Swimmer Weapon System | 3,911 | 1,474 |

Forpedo IIK-46 Hods (INP)

These NEARTIP will be combined into a single multiyear contract to generate maximum savings. These NEARTIP kits will be installed in existing MK-46 Mod 1 (non-CAPTOR) torpedoes to convert them to Mod 5 torpedoes. Long lead materials are being procured under the Torpedo MK-46 Mods (MYP) NEARTIP modification kits respectively in the latter two years of a three-year multiyear contract, FY 1986 through FY 1988. The HK 46 Nods and the purchase of new HK 46 Torpedoes \$77.0 million is requested in FY 1987 and \$49.3 million for procurement of 672 and 319 Advance Procurement line item.

Torpedo MK-46 Mods (MMP) Advance Procurement

FY 1987 funding of \$5.2 million provides for procurement of long lead material required to implement a three-year multiyear procurement program for the Torpedo MK-46 Mod 5 kits (FY 1986 through FY 1988). This multiyear procurement approach, which includes MK-46 torpedoes separately justified under the Torpedo MK-46 line item, is expected to effect total cost savings of \$51.4 million for both kits and torpedoes over the three-year period.

CAPTOR Mods

\$11.6 million is requested in FY 1987 and \$12.3 million is requested in FY 1988 in order to support procurement of modifications for MK-60 CAPTOR mines currently in the fleet. These modifications will update the older mines to the latest approved production baseline configuration.

Swimmer Weapon System

\$3.9 million is requested in FY 1987 and \$1.5 million is requested in FY 1988 in order to provide for continued procurement of unique weapons and equipment required by the Navy Special Warfare Groups One and Two (SEAL teams) to carry out beach clearance, underwater and direct action missions. Currently, there are eight SEAL teams deployed within the Fleet. The major special warfare system is the stand-off weapon assembly FK-32 which is comprised of the stand-off weapon NK-31 and weapon control system PK-5.

Support Equipment

(\$ in Thousands)
FY 1988 Estimate - 59,262
FY 1987 Estimate - 52,610
FY 1986 Estimate - 66,829
FY 1985 Actual - 96,000

Of the \$52.6 million requested in FY 1987, \$32.5 million is for Torpedo Support Equipment, and \$20.1 million is for ASW Range Support.

Of the \$59.3 million requested in FY 1988, \$36.1 million is for Torpedo Support Equipment, and \$23.2 million is for ASW Range Support.

Torpedo Support Equipment

| (\$ in Thousands) | FY 1988 | 36,092 | | 36,092 |
|-------------------|---------|------------|---------------|-----------------|
| | | 32,496 | • | 32,496 |
| | | rocurement | nitial Spares | rocurement Cost |

expended during torpedo firings such as batteries, pressure cylinders, propellant assemblies and various air-launch accessories; equipment and components worn out or lost during repeated service such as exercise heads and fuel tanks; and production support efforts associated with the above procurements. Procurement quantities of these items vary each year and are dependent upon fleet training requirements and the tempo of operations. The FY 1987 and FY 1988 resources procure the material required to support fleet training exercises and This line item provides the fleet with the components necessary to restore weapons used to conduct training exercises (which involves actually firing the torpedoes) back to a ready-for-issue warshot status. Thus this request supports combat-ready deployment of anti-submarine warfare forces. The funds requested provide for procurement of components Operational inventories for the MK-46, MK-48/MK-48 ADCAP Torpedoes and exercise turnaround kits of the MK-50 Advanced Lightweight Torpedoes.

ASW Range Support

| Constitution of the consti | FY 1988 | 23,170 | 908 | 24,075 |
|--|---------|------------|---------------|-----------------|
| | FY 1987 | 20,114 | 906 | 21,020 |
| | | rocurement | nitial Spares | rocurement Cost |

for the fixed costs of on-range proofing services. This includes the procurement of pingers, transponders, MK-30 and MK-27 Target exercise components and other related items. This line item supports Fleet exercises and torpedo firings and provides equipment for ASW readiness The Anti-Submarine Warfare Range Support Program provides for the procurement of range proofing and fleet support equipments required for use on the Navy's underwater ranyes and

Budget Activity 4: Other Weapons

(\$ In Thousands)
FY 1988 Estimate - \$132,400
FY 1987 Estimate - \$193,202
FY 1986 Estimate - \$223,447
FY 1985 Actual - \$229,111

Processor and Replaced Deposited Septimes Strategy Company

Purpose and Scope of Work

These funds provide for the procurement of guns and gun mounts for U.S. Navy and Coast Guard Ships. This budget activity also provides for the associated modifications and support equipment.

Justification of Funds

Of the \$193.2 million requested in FY 1987, \$135.1 million is for 27 Close-In Weapon Systems, 5 MK-75/76MM Gun Mounts, 25 MK-I9 Mod 3 40MM Machine Guns, 22 25MM Gun Mounts, and Small Arms and Weapons. \$57.2 million is for Gun and Gun Mount modification and \$.9 million is for support equipment.

3 40MM Machine Guns, 22 25MM Gun Mounts, and Small Arms and Weapons. \$73.1 million is for Gun and Gun Mount modification and \$.7 million is for support equipment. Of the \$132.4 million requested in FY 1988, \$58.6 million is for 9 Close-Ir Weapon Systems, 25 MK-19 Mod

The following paragraphs provide justification for Other Weapons. Initial spare parts amounts are included for information under each weapon system, but are separately justified in Budget Activity

Guns and Gun Mounts

(\$ In Thousands)
FY 1988 Estimate - \$ 58,644
FY 1987 Estimate - \$135,114
FY 1986 Estimate - \$173,270
FY 1985 Actual - \$188,111

Of the \$135.1 million requested for Guns and Gun Mounts in FY 1987 \$105.6 million is for 27 MK-15 Close-In Weapon Systems \$14.9 million is for 5 MK-75/76MM Gun Mounts, \$.6 million is for 25 MK-19 Mod 3 40MM Machine Guns, \$3.9 million is for 22 25MM Gun Mounts, and \$10.1 million is for Small Arms and Weapons.

Of the \$58.6 million requested for Guns and Gun Mounts in FY 1988, \$43.1 million is for 9 MK-15 Close-In Weapons Systems, \$.6 million is for 25 25MM Gun Mounts, and \$10.7 million is for Small Arms and Weapons.



MK-15 Close-In Weapon System (PHALANX)

FY 1988 (\$ In Thousands) \$105,606 8 T06,407 AMT FY 1987 **Procurement** Cost Initial Spares Procurement

both new construction and retrofit. Commencing in FY 1986, improvements will be incorporated system and a 20MM MSIAI gun all mounted in a single above deck structure requiring a minimum of interface with other ship systems. It automatically detects, evaluates, tracks, engages, assesses kill and returns to search mode. The system will be installed in over 300 ships, and will result in increased magazine capacity and increased search elevation. The requests represent funds for 27 systems in FY 1987 and 9 systems in FY 1988 for backfit onto active anti-ship missiles penetrating other Fleet defensive weapon envelopes. The system is an automatic self-contained unit consisting of search and track radar, digital fire control The PHALANX is a fast reaction, last ditch defense against low flying aircraft and -leet ships.

MK-75/76MM Gun Mount

| 87 FY 1988 | QTY AMT | ' | 3,354 | \$3,354 |
|------------|---------|-------------|----------------|------------------|
| FY 1987 | QTY | 5 \$14,875 | - 3,832 | 5 \$ 18,707 |
| | | Procurement | Initial Spares | Procurement Cost |

This gun is an OTU MELARA designed, 76MM/62 caliber, dual purpose, high rate of fire gun being installed in new construction hulls, Coast Guard cutters, Navy Patrol boats and frigates and as part of the Mid-Life Conversion of Hamilton Class Coast Guard cutters. This request provides for the procurement of 5 gun systems, 1 for the Hamilton Class, and 4 for rotatable pool mounts in FY 1987.

MK-19 40MM Machine Gun

| (\$ In Thousands) FY 1987 Y AMT 5 \$632 - 0 5 \$55 5 \$55 |
|---|
| |
| ands) FY 1988 QTY AMT 25 \$635 - 0 75 \$635 |

and reliable 40MM grenade firing weapon for arming ships and crafts. The MK-19 Mod 3 is planned as an initial issue and replacement weapon for the Navy's present inventory of MK-19 The MK-19 Mod 3 40MM Machine Gun program is required to provide a more effective, safe Mod 1 40MM Machine Guns.

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AND STORES AND STATE OF THE PROPERTY OF

25MM Gun Mount

| ls) | FY 1988 | Y AMT | 2 4,247 | - 141 | 72 \$4,388 |
|-------------------|---------|-------------|----------|---------------|------------|
| (\$ In Thousands) | FY 1987 | 01 V AMT 0T | 22 3,919 | - 135 | 22 \$4,054 |
| | | | | nitial Spares | |

This line provides for the procurement of MK 38 25MM M242 guns and mounts to replace MK-16 Mods 4/5 20MM Gun Mounts. The MK 38 25MM M242 Gun Systems are required by Navy to meet defense requirements for craft and ships as short range armament.

Small Arms and Weapons

| (\$ In Thousands) | FY 1988 | QTY AMT | <u>-</u> \$10,697 | |
|-------------------|---------|---------|-------------------|--|
| IL uI \$) | FY 1987 | QTY AMT | \$10°085 | |
| | | | curement | |

activities Navy-wide, as well as specially equipped weapons to support the SEAL Teams, Mobile Construction Battalions, other Special Warfare Units and crisis response teams. replenishment procurement of a wide variety of Small Arms and Weapons (.50 Caliber and below) inventory objective quantities and the increased demands for small arms weapons by the Fleet including required gun mounts and associated support components to meet wartime allowances, line also provides for procurement of sufficient types and quantities of weapons to support training, ship security, afloat and ashore missions of approximately 2676 ships and ashore This line provides for initial procurement, modernization, standardization, and stock Commanders and the Shore Establishment to counter the world-wide terrorist threats. Additionally, the funding provides for continued procurement of the 9MM handgun.

Modification of Guns and Gun Mounts

(\$ In Thousands)
FY 1988 Estimate - \$73,050
FY 1987 Estimate - \$57,215
FY 1986 Estimate - \$49,077
FY 1985 Actual - \$27,800

Of the \$57.2 million requested for modification of guns and gun mounts in FY 1987, \$43.0 million is for MK-15 Close-In Weapon System modification, \$6.1 million is for 5"/54 Gun Mount modification, \$4.1 million is for MK-75/75MM Gun Mount modification, \$1.6 million is for 3"/50 Gun Mount modification, and \$2.4 million is for \$1.5 million is \$2.4 million is \$2.4 million is \$2.4 million is \$2.5 mil

million is for MK-15 Close-In Weapon System modification, \$10.7 million is for 5"/54 Gun Mount modification, \$5.7 million is for MK-75/76MM Gun Mount modification, \$.2 million is for 3"/50 Gun Mount modification, and \$1.7 million is for Modifications under \$900,000. Of the \$73.1 million requested for modification of guns and gun mounts in FY 1988, \$54.7

MK-15 Close-In Weapons System (PHALANX) Modification

| housands) | FY 1988 | QTY AMT | \$54,706 |
|-----------|---------|---------|------------|
| L uI 8) | FY 1987 | QTY AMT | - \$42,965 |
| | | | curement |

The \$43.0 million in FY 1987 and \$54.7 million in FY 1988 are requested for improvements to the Close-In Weapon System. This will result in increased magazine capacity, increased maintainability improvements are included. Funds requested are to adapt previously procured units to incorporate these improvements. Systems being procured in FY 1985 and subsequent search elevation angle and adaptive firing rate. Additionally, reliability and years will incorporate these improvements.

5"/54 Gun Mount Modifications

| (\$ In Thousands) | FY 1987 FY 1 | OTV AMT OTV | | 1 | \$10,323 | |
|-------------------|--------------|-------------|------------|---------------|-----------------|--|
| | | | rocurement | nitial Spares | rocurement Cost | |

Of the funds requested, \$6.1 million in FY 1987 and \$10.7 million in FY 1988 are required for continuation of the 5"/54 ORDALT Program which provides hardware to correct deficiencies and improve operability, reliability, maintainability and system availability of all in-service 5"/54 Gun Mounts.

3"/50 Gun Mount Modifications

The \$1.6 million in FY 1987 and \$.2 million in FY 1988 are requested for major reliability, maintainability, and availability improvements for 3"/50 Gun Mounts.

MK-75/76MM Gun Mount Modifications

| (\$ In Thousands) | FY 1987 FY 1988 35,730 | | | |
|-------------------|------------------------|----------------|----------------|-------------------|
| | Procurement | Tritial Chambe | בוו בו סומו עמ | Omeganisment Cort |

The \$4.1 million in FY 1987 and \$5.7 million in FY 1988 are requested to procure safety, operability, reliability, shock, vibration improvements, and survivability modifications to correct in-service MK-75/76MM Gun Mount deficiencies.

Modifications Under \$900,000

| n Thousands) | FY 1988 | 384 \$1,719 | • | \$1,719 |
|------------------|---------|-------------|----------------|------------------|
| ∏ S) | FY 1987 | \$2,384 | • | \$2,384 |
| | | Procurement | Initial Spares | Procurement Cost |

The \$2.4 million in FY 1987 and \$1.7 million in FY 1988 are requested to procure a variety of ordnance alteration materials for in-service 16"/50 gun turrets, gun mounts, and 20MM through 40MM minor caliber ordnance.

Support Equipment

| | 90/ | 873 | 900. | 009 |
|--------------|---------------|----------|----------|--------|
| S | 57 | 44 | ₹ | ₩ |
| Pu | ı | 1 | ı | ı |
| In Thousands | Estimate | Estimate | Estimate | Actual |
| 5 | 1988 | 1987 | 1986 | 1985 |
| | Ŧ | FΥ | ۲ | Ŧ |
| | | | | |

The \$.9 million requested for support equipment in FY 1987 and the \$.7 million requested for support equipment in FY 1988 will provide for a variety of ordnance in support of Surface Gun Systems.

Gun Support Equipment

| (\$ In Thousands) | FY 1988 | \$.7 | |
|-------------------|---------|-------------|--|
| I uI 🛠) | FY 1987 | 6.3 | |
| | | | |
| | | Procurement | |

The \$.9 million in FY 1987 and \$.7 million in FY 1988 are requested to procure a variety This includes training aids and specialized of ordnance in support of Surface Gun Systems. small arms.



Budget Activity 5 - Spares and Repair Parts

(\$ In Thousands)
FY 1988 Estimate - \$162,056
FY 1987 Estimate - \$150,734
FY 1986 Estimate - \$151,497
FY 1985 Actual - \$ 0 1/

Purpose and Scope of Work: These funds provide for the procurement of spares and repair parts for all equipments, weapon systems and support equipment procured under the Weapons Procurement, Navy (WPN) appropriation which require support by the Hardware Systems Command prior to the Navy Supply System Material Support Date (MSD).

Justification of Funds: Of the \$150.7 million requested in FY 1987, \$140.1 million is for Initial spares and \$10.7 million is for Replenishment spares.

Of the \$162.1 million requested in FY 1988, \$151.5 million is for Initial spares and \$10.5 million is for Replenishment spares.

The following paragraphs provide the justification for each program.

Initial Spares

(\$ In Thousands)
FY 1987 FY 1988
\$T40,059 \$T51,523

spares procurement are determined by detailed provisioning procedures that consider a wide range of factors including the use of the end item, usage rate trends, engineering judgement and repairable item turnaround The requested funding provides for the procurement of initial spares and repair parts to support missile, Requirements for Navy initial ASW and other weapons/support equipment procured in this appropriation.

Replenishment Spares

(\$ In Thousands) FY 1987 FY 1986 \$10,675 \$10,533 The requested funding provides for the procurement of replenishment spares and repair parts requirements utilizing a stratification technique which considers the number of equipments/weapon systems installed in the Fleet, repair part usage data, Ready-For-Issue (RFI) spares returning from rework/repair programs and equipment leadtimes to derive net fiscal year budget requirements. 1/ \$171.3 million in FY 1985 for spares and repair parts are included in the totals for Budget Activities 1

Comparison of FY 1986 Program Requirements as Reflected in FY 1986 Budget With FY 1986 Program Requirements as Shown in FY 1987 Budget

Summary of Requirements (In Thousands of Dollars)

| | Total Program Requirements Per FY 1986 Budget | Program Requirements Per FY 1987 Budget | Increase (+) or Decrease (-) |
|---------------------------------|---|---|------------------------------|
| Ballistic Missiles | 685,326 | 602,560 | -82,766 |
| Other Missiles | 3,730,458 | 3,455,859 | -274,599 |
| Torpedoes and Related Equipment | 798,045 | 782,732 | -15,313 |
| Other Weapons | 247,470 | 223,447 | -24,023 |
| Spares and Repair Parts | 166,601 | 151,497 | -15,104 |
| Reimbursable Program | 30,000 | 30,000 | 1 |
| Total Fiscal Year Program | 5,657,900 | 5,246,095 | -411,805 |
| L | Explanation by Budget Activity | | |

Explanation by Budget Activity

. Ballistic Missiles (\$-82,766)

The decrease results from the following specific Congressional reductions: Trident I, \$-30,000; Poseidon modifications, \$-15,006; the application of the Congressional inflation and undistributed reductions, \$-31,160; and the identification of savings which will be utilized for planned DD 1415 reprograming actions, \$-6,600.

2. Other Missiles (\$-274,599)

The FY 1986 Other Missile program was impacted by the following specific Congressional actions:

Tomahawk advance procurement, \$-10,000; Sparrow advance procurement \$-9,500; Sidewinder, \$+32,000; Phoenix advance procurement, \$-13,500; Harm, \$-22,000; SM-1 MR, \$-15,638; SM-2 ER, \$-9,035; RAM, \$-44,713; Sidearm, \$+10,000; Hellfire, \$-3,300; Laser Maverick, \$-20,800; Sidewinder modifications, \$-10,000; Weapons Industrial Facilities, \$+6,000; Defense Meteorological Satellite Program, \$-3,800; and Ordnance Support Equipment, \$-55,600. Congressional inflation and undistributed reductions of \$-103,259 were applied to this budget activity. Planned net DD 1415 reprogramings in this budget activity total \$-1,454 million.

Torpedoes and Related Equipment (\$-15,313)

The decrease reflects specific Congressional reductions of \$-32,213 for the following programs; \$-4,000 for the MK-46 Torpedo MYP; \$-2,000 for the MK-30 Mobile Target, \$-20,013 for the MK-67 Mobile Mine; and \$-6,200 for the MK-46 Torpedo Mods (MYP) program. The change in funding in this budget activity can also be attributed to the addition of 150 MK-60 Captor mines (\$+59,600) by the Appropriation Conference and the application of Congressional undistributed and inflation reductions of \$-42,700.

Other Weapons (\$-24,023)

The decrease is the result of a specific Congressional reduction to the MK-75/76MM gun mount program of \$2.1 million and the application of Congressional undistributed and inflation reductions of \$-21,923.

5. Spares and Repair Parts (\$-15,104)

The decrease results from the application of Congressional undistributed and inflation reductions.

Comparison of FY 1986 Financing As Reflected In FY 1986 Budget With FY 1986 Financing As Shown in FY 1987 Budget

| | Financing Per FY 1986 Budget | Financing Per FY 1987 Budget | Increase (+) or Decrease (-) |
|---|------------------------------------|------------------------------------|------------------------------|
| Program Requirements (Total) | 5,657,900 | 5,246,095 | -411,805 |
| Program Requirements (Service Account) Program Requirements (Reimbursable) | 5,627,900 30,000 | 5,216,095 30,000 | -411,805 |
| Less: Anticipated Reimbursements Reprogramming from prior year budget plans Unobligated balance available from prior year to finance new budget plans Transferred from other accounts | -30,000 | -30,000 | 1 |

Add:

Unobligated balance available to finance subsequent year budget plans

| 95 -400,105 00 -11,700 95 -411,805 |
|--|
| 5,227,795 -11,700 5,216,095 |
| 5,627,900 |
| Appropriation Transferred to other accounts Appropriation (Adjusted) |

Explanation of Changes in Financing

The FY 1986 DOD Appropriations Act reduced the FY 1986 President's Budget request by \$400,105. A DD 1415 for the RDI&E,N Standoff Land Attack Missile (SLAM) Harpoon is reflected in the FY 1986 column of the FY 1987 President's Budget request.

Comparison of FY 1985 Program Requirements as Reflected In FY 1986 Budget With FY 1985 Program Requirements as Shown in FY 1987 Budget

Summary of Requirements (In Thousands of Dollars)

| Total Program Program Requirements Per FY 1986 Budget Per FY 1987 Budget | 340,629 322,749 | 3,046,671 3,104,351 | ment 724,200 724,200 | 242,111 229,111 | 1,461 | am 4,378,611 4,381,872 | |
|--|--------------------|---------------------|---------------------------------|-----------------|----------------------|---------------------------|--|
| | Ballistic Missiles | Other Missiles | Torpedoes and Related Equipment | Other Weapons | Reimbursable Program | Total Fiscal Year Program | |

Explanation by Budget Activity

. Ballistic Missiles (\$-17,880)

The net decrease results from a DD 1415 Reprograming action to the RDT&E,N appropriation (\$-27,880), and the reinstatement of \$9,800 planned for transfer to other accounts.

2. Other Missiles (\$+57,680)

The net increase is the result of several actions: A DD 1415 for the Phoenix missile has been reflected in the FY 1985 column of the FY 1987 budget (\$+80,800); an amount planned for transfer to the Standard missile was removed from the program when the DD 1415 was forwarded for approval (\$-9,800); the Harpoon missiles and Sidewinder Mods program have been reduced for a DD 1415 to the RDI&E,N appropriation for RAM missiles (\$-11,320); funds were removed from the program in accordance with the Authorization Conference (\$-15,000); and programs within the budget activity were increased for minor reprogramings (\$+13,000).

Explanation by Budget Activity

STATES OF THE PROPERTY OF THE

1. Other Weapons (\$-13,000)

The decrease is due to minor reprogramings of \$-13,000.

Comparison of FY 1985 Financing As Reflected In FY 1986 Budget With FY 1985 Financing As Shown in FY 1987 Budget

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| Increase (+) or Decrease (-) | +3,201 +26,800 -23,539 | -23,539 -80,800 | 54,000 |
|------------------------------------|---|---|--|
| | 8/2 111 161 | 461 800 | 000 |
| · | 4,381,872 4,380,411 1,461 | -1,461 | 54,000 |
| Financing Per FY 1986 Budget | 4,3/8,611 4,353,611 25,000 | -25,000 | 4,353,611 |
| | Program Requirements (Iotal) Program Requirements (Service Account) Program Requirements (Reimbursable) | Less: Anticipated Reimbursements Reprogramming from prior year budget plans Unobligated balance available from prior year to finance new budget plans Transferred from other accounts | Add: Unobligated balance available to finance subsequent year budget plans Appropriation (Adjusted) |

Explanation of Changes in Financing

which were not reflected in the FY 1985 column of the FY 1986 President's Budget, including DD 85-65 PA for the Phoenix missile (\$+80,800). and DOD 85-91 PA to RDT&E,N for the RAM missile (\$-39,000). \$15,000 has The net increase of \$3,261 in program requirements has been financed by several DD 1415 reprogramings also been removed from the WPN program in accordance with the direction of the Authorization Conference. The adjustment for reimbursables reflects an anticipated \$23,539 decrease in reimbursable orders.